

To: Christoph Goss[christoph.goss@deereault.com]; Matt Francis[m.francis@erllc.com]
Cc: Karl Fritz[karl.fritz@deereault.com]
From: Way, Steven
Sent: Sat 8/9/2014 7:41:43 PM
Subject: Re: Gold King changes - arch dimensions

Thank you Christoph.

Steve

From: Christoph Goss <christoph.goss@deereault.com>
Sent: Friday, August 8, 2014 9:05:33 PM
To: Matt Francis; Way, Steven
Cc: Karl Fritz
Subject: RE: Gold King changes - arch dimensions

Hi Steve and Matt

Attorney Client/Ex. 5

Feel free to contact Karl or me with any questions or comments.

Christoph

-----Original Message-----

From: Matt Francis [mailto:m.francis@erllc.com]
Sent: Monday, August 04, 2014 4:42 PM
To: Way, Steven; Christoph Goss
Subject: RE: Gold King changes - arch dimensions

[cid:__sdcard_EmailTemplImage_71218524283622014-08-04-16-41-11_png@sec.galaxytab]

Sent via the Samsung Galaxy Note® 3, an AT&T 4G LTE smartphone

----- Original message -----

From: "Way, Steven"
Date: 08/04/2014 4:36 PM (GMT-07:00)
To: Christoph Goss
Cc: Matt Francis
Subject: RE: Gold King changes - arch dimensions

Christoph here is a photo and as we discussed, the 11' 3" measurement was about 1/3 up from the base/foot.

Steve

Steven Way

Federal On-Scene Coordinator
Emergency Response Unit
US EPA - Region 8
1595 Wynkoop Street
Denver, CO 80202

Office: 303-312-6723

-----Original Message-----

From: Christoph Goss [mailto:christoph.goss@deereault.com]
Sent: Monday, August 04, 2014 4:08 PM
To: Matt Francis; Way, Steven
Cc: Karl Fritz
Subject: RE: Gold King changes
Importance: High

Gentlemen

I think that we are getting closer to solving the geometric mystery of the Gold King Arches. Attached is a drawing showing a modified horseshoe set. Instead of a horseshow with straight legs or a semi-circle, it consists of two constant radius (i.e. circular beams) with the bottom cut off and the foot plate welded at an angle to the web and flange. As you can see on the dimension lines, it agrees with your previous measurements:

155" OD arch length
127" OD chord
9' wide bottom
11'3" diameter

If the 10' height your mention was measured as shown on the drawing, we are good to go.

Please let me know if this drawing agrees with what you saw last week. Once we have that confirmed, Karl can recalculate the allowable loads.

Karl: please go ahead with preparing a bolt spec as requested below. I think it should cover steel type, threading, and min/max torque along with whatever you think is appropriate.

Christoph

-----Original Message-----

From: Matt Francis [mailto:m.francis@erllc.com]
Sent: Thursday, July 31, 2014 3:14 PM
To: Christoph Goss
Cc: Way, Steven
Subject: Gold King changes

At the site visit today a couple of things came up for you to adress.

1) we put a couple of arch set sections together and measured actual dimensions. The have a diameter of 11'3", are 10' high and 9' wide at the bottom. All measurements are inside. This probably changes your design limitations, so please revise.

2) bidders requested a bolt spec

3) bidders requested a volume for concrete used in footers (and maybe this changes due to #1?)

We requested they submit follow up questions as soon as possible. I'll fwd them to you as they arrive.

Thanks
Matt

Sent via the Samsung Galaxy Note® 3, an AT&T 4G LTE smartphone

Confidentiality Warning: This e-mail and any attachments contain information intended only for the use of the individual or entity named above. If the reader of this e-mail is not the intended recipient or the employee or agent responsible for delivering it to the intended recipient, any dissemination, publication or copying of this e-mail is strictly prohibited. The sender does not accept any responsibility for any loss, disruption or damage to your data or computer system that may occur while using data contained in, or transmitted with, this e-mail. If you have received this e-mail in error, please immediately notify by return e-mail. Thank you